IN THE CLAIMS:

Please amend the claims to read as follows:

Claim 1 (Currently Amended): An optical recording medium having a plurality of

recording layers of a double-spiral structure in which information is to be recorded on both of

land tracks and groove tracks, wherein

a spiral of a first recording layer of said recording layers is in a forward direction,

a spiral of a second recording layer of said recording layers is in a backward direction,

and

first information is to be recorded on one of a land track and a groove track of said first

recording layer in the direction from an inner periphery toward an outer periphery of said optical

recording medium, and second information subsequent to said first information is to be recorded

on one of a land track and a groove track of said second recording layer in the direction from the

outer periphery toward the inner periphery of said optical recording medium.

Claim 2 (Currently Amended): An optical recording medium having a plurality of

recording layers of a double-spiral structure in which information is to be recorded on both of

land tracks and groove tracks, wherein

a spiral of a first recording layer of said recording layers is in a forward direction,

a spiral of a second recording layer of said recording layers is in a backward direction,

and

first information is to be recorded on one of a land track and a groove track of said first

recording layer in the direction from an outer periphery toward an inner periphery of said optical

recording medium, and second information subsequent to said first information is to be recorded

on one of a land track and a groove track of said second recording layer in the direction from the

inner periphery toward the outer periphery of said optical recording medium.

Claim 3 (Currently Amended): The optical recording medium according to claim 1,

wherein third information subsequent to said second information is to be recorded on one of the

land track and the groove track of said first recording layer on which said first information is not

recorded, and fourth information subsequent to said third information is to be recorded on one of

the land track and the groove track of said second recording layer on which said second

information is not recorded.

Claim 4 (Currently Amended): The optical recording medium according to claim 2,

wherein third information subsequent to said second information is to be recorded on one of the

land track and the groove track of said first recording layer on which said first information is not

recorded, and fourth information subsequent to said third information is to be recorded on one of

the land track and the groove track of said second recording layer on which said second

information is not recorded.

Claim 5 (Currently Amended): The optical recording medium according to claim 1,

wherein said first information is to be recorded on the land track of said first recording layer, and

said second information is to be recorded on the land track of said second recording layer.

Claim 6 (Currently Amended): The optical recording medium according to claim 2, wherein said first information is to be recorded on the land track of said first recording layer, and

said second information is to be recorded on the land track of said second recording layer.

Claim 7 (Currently Amended): The optical recording medium according to claim 1,

wherein said first information is to be recorded on the groove track of said first recording layer,

and said second information is to be recorded on the groove track of said second recording layer.

Claim 8 (Currently Amended): The optical recording medium according to claim 2,

wherein said first information is to be recorded on the groove track of said first recording layer,

and said second information is to be recorded on the groove track of said second recording layer.

Claim 9 (Currently Amended): The optical recording medium according to claim 1,

wherein

either of said first recording layer and said second recording layer has been divided into

N zones (zone 1 to zone N) from the inner periphery toward the outer periphery of said optical

recording medium, and

first information is to be recorded on one of the land track and the groove track in zone n

(n: a natural number not less than one and not more than N) of said first recording layer in the

direction from the inner periphery toward the outer periphery of said optical recording medium,

and second information subsequent to said first information is to be recorded on one of the land

track and the groove track in zone \underline{n} of said second recording layer in the direction from the outer

periphery toward the inner periphery of said optical recording medium.

Claim 10 (Original): The optical recording medium according to claim 9, wherein an outer periphery end of zone \underline{n} of said second recording layer is located nearer to the outer periphery of said optical recording medium than an outer periphery end of zone \underline{n} of said first recording layer.

Claim 11 (Currently Amended): The optical recording medium according to claim 2, wherein

either of said first recording layer and said second recording layer has been divided into N zones (zone 1, zone 2, ..., zone N) from the inner periphery toward the outer periphery of said optical recording medium, and

first information is <u>to be</u> recorded on one of the land track and the groove track in zone \underline{n} (\underline{n} : a natural number not less than one and not more than N) of said first recording layer in the direction from the outer periphery toward the inner periphery of said optical recording medium, and second information subsequent to said first information is <u>to be</u> recorded on one of the land track and the groove track in zone \underline{n} of said second recording layer in the direction from the inner periphery toward the outer periphery of said optical recording medium.

Claim 12 (Original): The optical recording medium according to claim 11, wherein an inner periphery end of zone \underline{n} of said second recording layer is located nearer to the inner periphery of said optical recording medium than an inner periphery end of zone \underline{n} of said first recording layer.

Claim 13 (Currently Amended): The optical recording medium according to claim 9,

wherein said first information is <u>to be</u> recorded on the land track in zone \underline{n} of said first recording

layer, and said second information is to be recorded on the land track in zone n of said second

recording layer.

Claim 14 (Currently Amended): The optical recording medium according to claim 11,

wherein said first information is to be recorded on the land track in zone n of said first recording

layer, and said second information is to be recorded on the land track in zone n of said second

recording layer.

Claim 15 (Currently Amended): The optical recording medium according to claim 9,

wherein said first information is to be recorded on the groove track in zone \underline{n} of said first

recording layer, and said second information is to be recorded on the groove track in zone n of

said second recording layer.

Claim 16 (Currently Amended): The optical recording medium according to claim 11,

wherein said first information is to be recorded on the groove track in zone \underline{n} of said first

recording layer, and said second information is to be recorded on the groove track in zone n of

said second recording layer.

Claim 17 (Currently Amended): An optical recording medium having a plurality of

recording layers of a double-spiral structure in which information is to be recorded on both of

land tracks and groove tracks, wherein

at least a first recording layer, a second recording layer, a third recording layer, and a fourth recording layer are provided as said recording layers,

spirals of said first recording layer and said third recording layer are in a forward direction,

spirals of said second recording layer and said fourth recording layer are in a backward direction.

a first recording direction from an inner periphery toward an outer periphery of the optical recording medium and a second recording direction from the outer periphery toward the inner periphery of the optical recording medium are defined as the order of recording information,

the recording direction of said first recording layer and said third recording layer is one of said first recording direction and said second recording direction,

the recording direction of said second recording layer and said fourth recording layer is the other of said first recording direction and said second recording direction, and

physical addresses are allocated in the order of one of a land track and a groove track of said first recording layer, one of a land track and a groove track of said second recording layer, the other of the land track and the groove track of said first recording layer, the other of the land track and the groove track of said second recording layer, one of a land track and a groove track of said third recording layer, one of a land track and a groove track of said fourth recording layer, the other of the land track and the groove track of said third recording layer, and the other of the land track and the groove track of said fourth recording layer.

Claim 18 (Currently Amended): An information recording apparatus for recording

information onto an optical recording medium having at least a first recording layer and a second

recording layer of a double-spiral structure in which information is to be recorded on both of

land tracks and groove tracks, wherein

a spiral of said first recording layer is in a forward direction,

a spiral of said second recording layer is in a backward direction,

a first recording direction from an inner periphery toward an outer periphery of the

optical recording medium and a second recording direction from the outer periphery toward the

inner periphery of the optical recording medium are defined as the order of recording

information,

information is to be recorded in said first recording layer in one of said first recording

direction and said second recording direction,

information is to be recorded in said second recording layer in the other of said first

recording direction and said second recording direction, and

physical addresses for recording are allocated in the order of one of a land track and a

groove track of said first recording layer, one of a land track and a groove track of said second

recording layer, the other of the land track and the groove track of said first recording layer, and

the other of the land track and the groove track of said second recording layer.

Claim 19 (Original): An information reproducing apparatus for reproducing information

from an optical recording medium having at least a first recording layer and a second recording

layer of a double-spiral structure in which information is recorded on both of land tracks and

groove tracks, wherein

a spiral of said first recording layer is in a forward direction,

a spiral of said second recording layer is in a backward direction,

optical recording medium and a second reproducing direction from the outer periphery toward

a first reproducing direction from an inner periphery toward an outer periphery of the

the inner periphery of the optical recording medium are defined as the order of reproducing

information,

information is reproduced from said first recording layer in one of said first reproducing

direction and said second reproducing direction,

information is reproduced from said second recording layer in the other of said first

reproducing direction and said second reproducing direction, and

information is reproduced following physical addresses allocated in the order of one of a

land track and a groove track of said first recording layer, one of a land track and a groove track

of said second recording layer, the other of the land track and the groove track of said first

recording layer, and the other of the land track and the groove track of said second recording

layer.

Claim 20 (Original): An information reproducing apparatus for reproducing information

from an optical recording medium having at least a first recording layer and a second recording

layer of a double-spiral structure in which information is recorded on both of land tracks and

groove tracks, wherein

a spiral of said first recording layer is in a forward direction,

a spiral of said second recording layer is in a backward direction,

information has been recorded in said first recording layer in the direction from an inner periphery toward an outer periphery of said optical recording medium,

information has been recorded in said second recording layer in the direction from the outer periphery toward the inner periphery of said optical recording medium,

either of said first recording layer and said second recording layer has been divided into N zones (zone 1 to zone N) from the inner periphery toward the outer periphery of said optical recording medium,

first information has been recorded on one of a land track and a groove track in zone n (n: a natural number not less than one and not more than N) of said first recording layer, and second information subsequent to said first information has been recorded on one of a land track and a groove track in zone n of said second recording layer, and

a driving device is provided for driving a pickup so that said first information is reproduced following physical addresses, the focus of said pickup is slid by a predetermined amount in the direction toward the inner periphery of said optical recording medium with a focus jump from said first recording layer to said second recording layer, and then said second information is reproduced following physical addresses.

Claim 21 (Original): An information reproducing apparatus for reproducing information from an optical recording medium having at least a first recording layer and a second recording layer of a double-spiral structure in which information is recorded on both of land tracks and groove tracks, wherein

- a spiral of said first recording layer is in a forward direction,
- a spiral of said second recording layer is in a backward direction,

information has been recorded in said first recording layer in the direction from an outer periphery toward an inner periphery of said optical recording medium,

information has been recorded in said second recording layer in the direction from the inner periphery toward the outer periphery of said optical recording medium,

either of said first recording layer and said second recording layer has been divided into N zones (zone 1 to zone N) from the inner periphery toward the outer periphery of said optical recording medium,

first information has been recorded on one of a land track and a groove track in zone <u>n</u> (<u>n</u>: a natural number not less than one and not more than N) of said first recording layer, and second information subsequent to said first information has been recorded on one of a land track and a groove track in zone n of said second recording layer, and

a driving device is provided for driving a pickup so that said first information is reproduced following physical addresses, the focus of said pickup is slid by a predetermined amount in the direction toward the outer periphery of said optical recording medium with a focus jump from said first recording layer to said second recording layer, and then said second information is reproduced following physical addresses.

Claim 22 (New): An optical recording medium having a plurality of recording layers in which information is to be recorded on both of land tracks and groove tracks, wherein

physical addresses in a land track are allocated discontinuously from physical addresses in a groove track in each of the recording layers.

Claim 23 (New): The optical recording medium according to claim 22, wherein

at least a first recording layer and a second recording layer are provided as the recording

layer,

physical addresses are allocated in the order of one of a land track and a groove track of

the first recording layer, one of a land track and a groove track of the second recording layer, the

other of the land track and the groove track of the first recording layer, and the other of the land

track and the groove track of the second recording layer.

Claim 24 (New): An information recording apparatus for recording information onto an

optical recording medium having a plurality of recording layers in which information is to be

recorded on both of land tracks and groove tracks, wherein at least a first recording layer and a

second recording layer are provided as the recording layer,

wherein physical addresses are allocated in the order of one of a land track and a groove

track of the first recording layer, one of a land track and a groove track of the second recording

layer, the other of the land track and the groove track of the first recording layer, and the other of

the land track and the groove track of the second recording layer.

Claim 25 (New): An information reproducing apparatus for reproducing information

from an optical recording medium having a plurality of recording layers in which information is

recorded on both of land tracks and groove tracks, wherein physical addresses in a land track are

allocated discontinuously from physical addresses in a groove track in each of the recording

layers,

wherein the apparatus reproduces information in accordance with the physical addresses

of the optical recording medium.

Claim 26 (New): An information reproducing apparatus for reproducing information

from an optical recording medium having a plurality of recording layers in which information is

recorded on both of land tracks and groove tracks, wherein at least a first recording layer and a

second recording layer are provided as the recording layer,

wherein the apparatus reproduces information in accordance with the physical addresses

which are allocated in the order of one of a land track and a groove track of the first recording

layer, one of a land track and a groove track of the second recording layer, the other of the land

track and the groove track of the first recording layer, and the other of the land track and the

groove track of the second recording layer.